

Name: Answer Key

Date: _____

Period: _____

10

Patterns and Functions Quiz

Complete the table. Then, write a function rule for the relationship. (3 points)

number of hours	distance traveled, in miles
1	60
2	110
3	160
4	210

Define variables:

Let h = # of hours
 Let d = total distance

Function Rule:

$$d = 50h + 10$$

Identify the independent and dependent quantity in this situation and find a reasonable domain and range. Then, complete the chart and write a function rule to describe the situation. (4 points)

Situation: Roger delivers 30 newspapers in an hour on Sundays. He works between 5 - 7 hours each Sunday.

Independent Variable: # of hoursDependent Variable: newspapers deliveredDomain: 5-7 hoursRange: 150 - 210 newspapers

Complete the chart with the following words. (3 points)

x-values	independent variable	input	output
range	output	domain	range
domain	input	x-values	y-values
y-values	dependent variable	in	out